

**STIC Biotechnology Systems Branch**

**RAW SEQUENCE LISTING**  
**ERROR REPORT**

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/536,880  
Source: PT  
Date Processed by STIC: 3/20/06

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.4.0 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):  
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

already sent copy



PCT

## RAW SEQUENCE LISTING

DATE: 03/20/2006

PATENT APPLICATION: US/10/536,880

TIME: 12:16:22

Input Set : A:\272924US0PCT.ST25.txt

Output Set: N:\CRF4\03202006\J536880.raw

3 <110> APPLICANT: Onoue, Satomi  
 4 Endo, Kousuke  
 5 Matsumoto, Asami  
 7 <120> TITLE OF INVENTION: PEPTIDES AND MEDICINAL COMPOSITIONS CONTAINING THE SAME  
 9 <130> FILE REFERENCE: 272924US0PCT  
 11 <140> CURRENT APPLICATION NUMBER: 10/536,880  
 12 <141> CURRENT FILING DATE: 2005-05-27  
 14 <150> PRIOR APPLICATION NUMBER: PCT/JP03/14924  
 15 <151> PRIOR FILING DATE: 2003-11-21  
 17 <150> PRIOR APPLICATION NUMBER: JP 2002-344523  
 18 <151> PRIOR FILING DATE: 2002-11-27  
 20 <160> NUMBER OF SEQ ID NOS: 34  
 22 <170> SOFTWARE: PatentIn version 3.3  
 24 <210> SEQ ID NO: 1  
 25 <211> LENGTH: 27  
 26 <212> TYPE: PRT  
 27 <213> ORGANISM: Artificial  
 29 <220> FEATURE:  
 30 <223> OTHER INFORMATION: Synthetic Peptide  
 33 <220> FEATURE:  
 34 <221> NAME/KEY: MISC\_FEATURE  
 35 <222> LOCATION: (5)..(5)  
 36 <223> OTHER INFORMATION: Xaa = Val or Ile  
 38 <220> FEATURE:  
 39 <221> NAME/KEY: MISC\_FEATURE  
 40 <222> LOCATION: (8)..(8)  
 41 <223> OTHER INFORMATION: Xaa = Asp, Glu or Ala  
 43 <220> FEATURE:  
 44 <221> NAME/KEY: MISC\_FEATURE  
 45 <222> LOCATION: (9)..(9)  
 46 <223> OTHER INFORMATION: Xaa = Asn or Ser  
 48 <220> FEATURE:  
 49 <221> NAME/KEY: MISC\_FEATURE  
 50 <222> LOCATION: (11)..(11)  
 51 <223> OTHER INFORMATION: Xaa = Thr or Ser  
 53 <220> FEATURE:  
 54 <221> NAME/KEY: MISC\_FEATURE  
 55 <222> LOCATION: (13)..(13)  
 56 <223> OTHER INFORMATION: Xaa = Leu or Tyr  
 58 <220> FEATURE:  
 59 <221> NAME/KEY: MISC\_FEATURE  
 60 <222> LOCATION: (15)..(15)  
 61 <223> OTHER INFORMATION: Xaa = Lys or Arg

Does Not Comply  
Corrected Diskette Needed

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## RAW SEQUENCE LISTING

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DATE: 03/20/2006

TIME: 12:16:22

Input Set : A:\272924US0PCT.ST25.txt

Output Set: N:\CRF4\03202006\J536880.raw

63 <220> FEATURE:  
 64 <221> NAME/KEY: MISC\_FEATURE  
 65 <222> LOCATION: (17)..(17)  
 66 <223> OTHER INFORMATION: Xaa = Leu or nLeu  
 68 <220> FEATURE:  
 69 <221> NAME/KEY: MISC\_FEATURE  
 70 <222> LOCATION: (20)..(20)  
 71 <223> OTHER INFORMATION: Xaa = Lys or Arg  
 73 <220> FEATURE:  
 74 <221> NAME/KEY: MISC\_FEATURE  
 75 <222> LOCATION: (21)..(21)  
 76 <223> OTHER INFORMATION: Xaa = Lys or Arg  
 78 <220> FEATURE:  
 79 <221> NAME/KEY: MISC\_FEATURE  
 80 <222> LOCATION: (26)..(26)  
 81 <223> OTHER INFORMATION: Xaa = Ile or Val  
 83 <220> FEATURE:  
 84 <221> NAME/KEY: misc\_feature  
 95 <222> LOCATION: (27)..(27)  
 86 <223> OTHER INFORMATION: Xaa can be any naturally occurring amino acid  
 88 <400> SEQUENCE: 1  
 W--> 90 His Ser Asp Ala Xaa Phe Thr Xaa Xaa Tyr Xaa Arg Xaa Arg Xaa Gln  
 91 1 5 10 15  
 W--> 94 Xaa Ala Val Xaa Xaa Tyr Leu Ala Ala Xaa Xaa  
 95 20 25  
 98 <210> SEQ ID NO: 2  
 99 <211> LENGTH: 28  
 100 <212> TYPE: PRT  
 101 <213> ORGANISM: Artificial  
 103 <220> FEATURE:  
 104 <223> OTHER INFORMATION: Synthetic Peptide  
 107 <220> FEATURE:  
 108 <221> NAME/KEY: MOD\_RES  
 109 <222> LOCATION: (28)..(28)  
 110 <223> OTHER INFORMATION: Amidation  
 112 <400> SEQUENCE: 2  
 114 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln  
 115 1 5 10 15  
 118 Met Ala Val Lys Lys Tyr Leu Asn Ser Ile Leu Asn  
 119 20 25  
 122 <210> SEQ ID NO: 3  
 123 <211> LENGTH: 27  
 124 <212> TYPE: PRT  
 125 <213> ORGANISM: Artificial  
 127 <220> FEATURE:  
 128 <223> OTHER INFORMATION: Synthetic Peptide  
 131 <220> FEATURE:  
 132 <221> NAME/KEY: MOD\_RES  
 133 <222> LOCATION: (27)..(27)

Nle?

If so, please use "Nle",  
 instead, per representation  
 in the sequence tables.

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134 &lt;223&gt; OTHER INFORMATION: Amidation

136 &lt;400&gt; SEQUENCE: 3

138 His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln

139 1 5 10 15

142 Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu

143 20 25

146 &lt;210&gt; SEQ ID NO: 4

147 &lt;211&gt; LENGTH: 38

148 &lt;212&gt; TYPE: PRT

149 &lt;213&gt; ORGANISM: Artificial

151 &lt;220&gt; FEATURE:

152 &lt;223&gt; OTHER INFORMATION: Synthetic Peptide

155 &lt;220&gt; FEATURE:

156 &lt;221&gt; NAME/KEY: MOD\_RES

157 &lt;222&gt; LOCATION: (38)..(38)

158 &lt;223&gt; OTHER INFORMATION: Amidation

160 &lt;400&gt; SEQUENCE: 4

162 His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Lys Gln

163 1 5 10 15

166 Met Ala Val Lys Lys Tyr Leu Ala Ala Val Leu Gly Lys Arg Tyr Lys

167 20 25 30

170 Gln Arg Val Lys Asn Lys

171 35

174 &lt;210&gt; SEQ ID NO: 5

175 &lt;211&gt; LENGTH: 31

176 &lt;212&gt; TYPE: PRT

C--&gt; 177 &lt;213&gt; ORGANISM: Artificial

180 &lt;220&gt; FEATURE:

181 &lt;221&gt; NAME/KEY: MOD\_RES

182 &lt;222&gt; LOCATION: (31)..(31)

183 &lt;223&gt; OTHER INFORMATION: Amidation

185 &lt;400&gt; SEQUENCE: 5

187 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Arg Gln

188 1 5 10 15

191 Leu Ala Val Arg Arg Tyr Leu Asn Ser Ile Leu Asn Gly Arg Arg

192 20 25 30

195 &lt;210&gt; SEQ ID NO: 6

196 &lt;211&gt; LENGTH: 30

197 &lt;212&gt; TYPE: PRT

198 &lt;213&gt; ORGANISM: Artificial

200 &lt;220&gt; FEATURE:

201 &lt;223&gt; OTHER INFORMATION: Synthetic Peptide

204 &lt;220&gt; FEATURE:

205 &lt;221&gt; NAME/KEY: MOD\_RES

206 &lt;222&gt; LOCATION: (30)..(30)

207 &lt;223&gt; OTHER INFORMATION: Amidation

209 &lt;400&gt; SEQUENCE: 6

211 His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Arg Gln

212 1 5 10 15

*Artificial**needs exploration in 2207-2237 section*

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Input Set : A:\272924US0PCT.ST25.txt

Output Set: N:\CRF4\03202006\J536880.raw

```

215 Leu Ala Val Arg Arg Tyr Leu Ala Ala Val Leu Gly Arg Arg
216          20          25          30
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220 <211> LENGTH: 38
221 <212> TYPE: PRT
222 <213> ORGANISM: Artificial
224 <220> FEATURE:
225 <223> OTHER INFORMATION: Synthetic Peptide
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229 <221> NAME/KEY: MOD_RES
230 <222> LOCATION: (38)..(38)
231 <223> OTHER INFORMATION: Amidation
233 <400> SEQUENCE: 7
235 His Ser Asp Gly Ile Phe Thr Asp Ser Tyr Ser Arg Tyr Arg Arg Gln
236 1          5          10          15
239 Leu Ala Val Arg Arg Tyr Leu Ala Ala Val Leu Gly Arg Arg Tyr Arg
240          20          25          30
243 Gln Arg Val Arg Asn Arg
244          35
247 <210> SEQ ID NO: 8
248 <211> LENGTH: 25
249 <212> TYPE: PRT
250 <213> ORGANISM: Artificial
252 <220> FEATURE:
253 <223> OTHER INFORMATION: Synthetic Peptide
256 <220> FEATURE:
257 <221> NAME/KEY: MOD_RES
258 <222> LOCATION: (25)..(25)
259 <223> OTHER INFORMATION: Amidation
261 <400> SEQUENCE: 8
263 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
264 1          5          10          15
267 Met Ala Val Lys Lys Tyr Leu Asn Ser
268          20          25
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272 <211> LENGTH: 25
273 <212> TYPE: PRT
274 <213> ORGANISM: Artificial
276 <220> FEATURE:
277 <223> OTHER INFORMATION: Synthetic Peptide
280 <220> FEATURE:
281 <221> NAME/KEY: MOD_RES
282 <222> LOCATION: (17)..(17)
283 <223> OTHER INFORMATION: Oxidation
285 <400> SEQUENCE: 9
287 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
288 1          5          10          15
291 Met Ala Val Lys Lys Tyr Leu Asn Ser
292          20          25

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## RAW SEQUENCE LISTING

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PATENT APPLICATION: US/10/536,880

TIME: 12:16:22

Input Set : A:\272924US0PCT.ST25.txt

Output Set: N:\CRF4\03202006\J536880.raw

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295 <210> SEQ ID NO: 10
296 <211> LENGTH: 23
297 <212> TYPE: PRT
298 <213> ORGANISM: Artificial
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301 <223> OTHER INFORMATION: Synthetic Peptide
304 <220> FEATURE:
305 <221> NAME/KEY: MOD_RES
306 <222> LOCATION: (23)..(23)
307 <223> OTHER INFORMATION: Amidation
309 <400> SEQUENCE: 10
311 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
312 1 5 10 15
315 Leu Ala Val Lys Lys Tyr Leu
316 20
319 <210> SEQ ID NO: 11
320 <211> LENGTH: 23
321 <212> TYPE: PRT
322 <213> ORGANISM: Artificial
324 <220> FEATURE:
325 <223> OTHER INFORMATION: Synthetic Peptide
328 <220> FEATURE:
329 <221> NAME/KEY: MOD_RES
330 <222> LOCATION: (23)..(23)
331 <223> OTHER INFORMATION: Amidation
333 <400> SEQUENCE: 11
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336 1 5 10 15
339 Leu Ala Val Arg Arg Tyr Leu
340 20
343 <210> SEQ ID NO: 12
344 <211> LENGTH: 28
345 <212> TYPE: PRT
346 <213> ORGANISM: Artificial
348 <220> FEATURE:
349 <223> OTHER INFORMATION: Synthetic Peptide
352 <220> FEATURE:
353 <221> NAME/KEY: MOD_RES
354 <222> LOCATION: (28)..(28)
355 <223> OTHER INFORMATION: Amidation
357 <400> SEQUENCE: 12
359 His Ser Asp Ala Val Phe Thr Asp Asn Tyr Thr Arg Leu Arg Lys Gln
360 1 5 10 15
363 Leu Ala Val Lys Lys Tyr Leu Ala Ala Ile Leu Asn
364 20 25
367 <210> SEQ ID NO: 13
368 <211> LENGTH: 30
369 <212> TYPE: PRT
370 <213> ORGANISM: Artificial

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RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/536,880

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TIME: 12:16:23

Input Set : A:\272924US0PCT.ST25.txt  
Output Set: N:\CRF4\03202006\J536880.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; Xaa Pos. 5, 8, 9, 11, 13, 15, 17, 20, 21, 26, 27  
Seq#:17; Xaa Pos. 17

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28  
Seq#:29,30,31,32,33,34

## VERIFICATION SUMMARY

DATE: 03/20/2006

PATENT APPLICATION: US/10/536,880

TIME: 12:16:23

Input Set : A:\272924US0PCT.ST25.txt

Output Set: N:\CRF4\03202006\J536880.raw

L:90 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:0  
L:94 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:16  
L:177 M:220 C: Keyword misspelled or invalid format, <213> ORGANISM for SEQ ID#:5  
L:492 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:17 after pos.:16